JNAN VIKAS MANDAL'S
AmratlalRaichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
MohanlalRaichand Mehta College of Commerce
Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, AiroliNavi Mumbai

Date: 06/11/2023

NOTICE

All members are hereby informed that there will be departmental meeting on November 07, 2023 at 1:30 p.m. in the Computer Science Laboratory.

Agenda

1. Conduction of bridge Course for FYCS.
2. Work Distribution

Asst. Prof. Janhavi Kshirsagar

Co-ordinator CS-IT Dept

JNAN VIKAS MANDAL'S
Amratlal Raichand Mehta Degree College of Arts
Diwali Maa Degree College of Science
Mohanlal Raichand Mehta College of Commerce
Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airol Navi Mumbai

Date: 07/11/2023

Minutes of Meeting

November 07, 2023

The departmental meeting was held on 7th November, 2023 at 1:30 p.m. in the Computer Science Laboratory.

Following matters were discussed and finalized as per agenda.

1. **Conduction of Bridge Course**

   It was decided that Bridge Course of FYCS will be conducted from 28th November 2023 to 5th December 2023. Examination will be taken online on Google Form on 5th December 2023 after completion of lectures.

2. **Work Distribution**

   It was decided that Dr. Sanjivani Nalkar will design the syllabus, Ms. Shakuntala Kulkarni will make Google Form for conduction of examination, Mrs. Sarita Sarang will make the timetable for conduction of lectures of Bridge course and Mrs. Janhavi Kshirsagar will do the report writing.

Adjournment

   Meeting was adjourned at 2.30 p.m..

JNAN VIKAS MANDAL'S
AmratlalRaichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
MohanlalRaichand Mehta College of Commerce
Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, AiroliNavi Mumbai

Date: 09/11/2023

Following members were present: Signature

Asst. Prof. Janhavi Kshirsagar

Asst. Prof.Sarita Sarang

Dr. Sanjivani Nalkar

Asst. Prof. Shakuntala Kulkarni

Asst. Prof. Vinaya Mangale

JNAN VIKAS MANDAL'S
Mohanlal Raichand Mehta College of Commerce
Diwali Maa College of Science
Amritlal Raichand Mehta College of Arts
Dr. R.T. Doshi College of Computer Science
NAAC Re-Accredited Grade 'A+' (CGPA : 3.31) (3rd Cycle)

F.Y.B.Sc (C.S)SYLLABUS OF BRIDGE COURSE

Duration: - 30 hours

Objectives-

1. To understand the need and importance of a database.

2. To introduce various concepts of Object-Oriented Programming and programming to the students.

3. To familiarize the prospective learners with the fundamentals of algorithms.

4. To familiarize students with the basics of Statistics and Calculus.

Outcome-

Students will be able to

1. Understand the basics of a Database.

2. Understand the concepts of programming before actually starting to write programs.

3. Understand the concepts of the Algorithm.

4. Enable learners to know descriptive statistical concepts

Module	Contents	Number of hours
I	**Module: Statistics** Counting, Random variables, distributions, quantiles, mean variance	7 Lectures
2	**Module: Basics of Algorithm** Introduction to algorithms - What is an algorithm, analysis of the algorithm, Types of complexity, Running time analysis, How to Compare Algorithms, Rate of Growth, Performance characteristics of algorithms, Estimating running time/number of steps of executions on paper,	7 Lectures
3	**Module: Basic Programming Concepts for Python and OOPS** Python : History & Versions, Features of Python, Execution of a Python Program, Python Tokens, Use of input() and print() Function. Data types, Compound Data types ,Flow Control Statements. If,if-else, Nested If, While, For, Range() Function use. OOPS : What is OOPS, Features of OOPS , Advantages and Dis advantages of OOPS, C++ Features , Difference Between CC and Python. Basic C++ Program and Execution.	7 Lectures
4	**Module: Database Management System** Introduction of Database, Characteristics of DBMS, Need of Database, Types of Database, advantages	7 Lectures

	of Database Management system, User of Database, Structured Query Language	
	Case Study / Assignment	1 Lecture
	Test	1 Lectures

JNAN VIKAS MANDAL'S

Mohanlal Raichand Mehta College of Commerce
Diwali Maa College of Science
Amritlal Raichand Mehta College of Arts
Dr. R.T. Doshi College of Computer Science
NAAC Re-Accredited Grade 'A+' (CGPA : 3.31) (3rd Cycle)

Certificate

This certificate is awarded to

<<NAME>>

of F.Y.B.Sc (C.S) who has successfully completed Bridge Course organized by Department of Computer Science of JVM's Degree College from 28th November 2023 to 5th December 2023.

Jakshirsagar

Asst. Prof. Janhavi Kshirsagar
CS-IT Coordinator and Course Convener

Dr. B. R. Deshpande
I/C Principal

List of Participants of Bridge Course

Sr No	Name	Email Address
1	Aastha yadav	17aasthay@gmail.com
2	Komal yadav	komalydv2003@gmail.com
3	Aachal pandey	aachalpandey7039@gmail.com
4	Harshita Jayesh Sanil	harshitasanil31@gmail.com
5	Samiksha chandrkant shete	shetesamiksha370@gmail.com
6	Hemashree Gokul Jadhav	hemashreejadhav@gmail.com
7	Shraddha vilas more	shraddhamore2528@gmail.com
8	Nilam Deepak Patil	nilampatil225@gmail.com
9	Sayli Bhosale	sayalibhosale2006@gmail.com
10	SAI PATIL	saipatil.19xc@gmail.com
11	Brahma Borude	brahmaborude2005@gmail.com
12	Aditya Rao	adityarao0711@gmail.com
13	Akash	rajputakash1656@gmail.com
14	Pranav Prakash Powar	pranavpowar05@gmail.com
15	Kamal Yashwant Chaugule	Kamalchaugule09@gmail.com
16	Ashutosh Dubey	anupdubey0987@gmail.com
17	Varshita Tawade	tawadevarshu@gmail.com
18	Sakshi Pravin chavan	chavansakshi182@gmail.com
19	Shreyash Shete	shreyashshete900@gmail.com
20	Khan ammar waseem	ammar011205@gmail.com
21	Sanjula Parab	sanjulaparab@gmail.com
22	Lavishka Ronald D'souza	dsouzalavishka@gmail.com
23	Krish Sunil pandhare	krishpandhare2@gmail.com
24	Pooja Vicky Moullick	poojamoullick@gmail.com
25	Aishwarya Sudesh Dalvi	aishwaryasudesh20@gmail.com
26	Vaishnavi	vaishurg10@gmail.com
27	Sumit Ganesh Mohite	sumitmohite2024@gmail.com
28	Ayush Anil Mahadik	ayushmahadik12@gmail.com
29	Sahil Subhash Bamane	bamnereshma1@gmail.com
30	Parinita Taralkar	parinitataralkar@gmail.com
31	Mokshada wani	momiwani756@gmail.com
32	Anand Mishra	mr.moon15m@gmail.com
33	Roshan omprakash chauhan	chauhanroshan8097@gmail.com
34	Rushabh	rushabhnaik972@gmail.com
35	Soham pawar	pawarsoham527@gmail.com
36	Barot Rajesh Dinesh	rajeshbarot1278@gmail.com
37	Padwal Avishkar Santosh	padvalavishkar@gamil.com
38	Dipesh kodak	dipesh27kodak@gmail.com
39	Rushikesh kadam	rushikeshkadam0911@gmail.com

40	Deva Vijay Panigrahi	panigrahideva329@gmail.com
41	Bhavya katarmal	bhavyakatarmal1@gmail.com
42	Pranay kadam	pranaykadam2006@gmail.com
43	Akshat Patil	patilakshat13@gmail.com
44	Harshal Pravin Kharat	kharatharshal746@gmail.com
45	Saurav Kadam	sauravkadam0710@gmail.com
46	Navin S. K. Mathi	mathinavin14@gmail.com
47	Yash Nandoskar	yashnandoskar95@gmail.com
48	NIKHIL YADAV	ny777608@gmail.com
49	Suman Singha	singhasuman831@gmail.com
50	Shriyog Santosh Tavsalkar	shriyogtavsalkar99@gmail.com
51	Navnath Baban Ubale	navnathubale87814@gmail.com
52	Sanket Yadav	yadav.sanketkumar05@gmail.com
53	Gupta Vinay Kumar Shivlal	1150vinay11scii@gmail.com
54	Dhanush Anchan	anchandhanush17@gmail.com
55	Gayatri lokare	gayatrilokare125@gmail.com
56	Swarali Suryawanshi	Swaralisuryawanshi56@gmail.com
57	Rashid Jamal Akhtar Khan	uniking3247@gmail.com
58	Shivam gupta	sg5643151@gmail.com
59	Harsh.S.Bhagat	bhagatharsh079@gmail.com
60	Nakul Ashok psnchal	nakulpanchal621@gmail.com
61	Pradeep Bhanupratap Yadav	pradeep009901@gmail.com
62	SHAIKH MOHD SADIQ	ASPIREPROGRAMMER005@GMAIL.COM
63	Aditee Vinod pandey	aditeepandey6@gmail.com
64	Arun Sharma	arunsharma69671@gmail.com
65	Bhumika bhoir	bhoirbhumika2323@gmail.com
66	Aniket yadav	aniket13092005@gmail.com
67	Mansi korke	mansikorke23@gmail.com

JNAN VIKAS MANDAL'S
AmratlalRaichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
MohanlalRaichand Mehta College of Commerce
Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, AiroliNavi Mumbai

F.Y.B.Sc (C.S)SYLLABUS OF BRIDGE COURSE

Duration: – 30 hours

Objectives-

1. To understand the need and importance of a database.

2. To introduce various concepts of Object-Oriented Programming and programming to the students.

3. To familiarize the prospective learners with the fundamentals of algorithms.

4. To familiarize students with the basics of Statistics and Calculus.

Outcome-

Students will be able to

1. Understand the basics of a Database.

2. Understand the concepts of programming before actually starting to write programs.

3. Understand the concepts of the Algorithm.

4. Enable learners to know descriptive statistical concepts

JNAN VIKAS MANDAL'S
AmratlalRaichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
MohanlalRaichand Mehta College of Commerce
Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, AiroliNavi Mumbai

List of Participants

Sr No	Name	Email Address
1	Aastha yadav	17aasthay@gmail.com
2	Komal yadav	komalydv2003@gmail.com
3	Aachal pandey	aachalpandey7039@gmail.com
4	Harshita Jayesh Sanil	harshitasanil31@gmail.com
5	Samiksha chandrkant shete	shetesamiksha370@gmail.com
6	Hemashree Gokul Jadhav	hemashreejadhav@gmail.com
7	Shraddha vilas more	shraddhamore2528@gmail.com
8	Nilam Deepak Patil	nilampatil225@gmail.com
9	Sayli Bhosale	sayalibhosale2006@gmail.com
10	SAI PATIL	saipatil.19xc@gmail.com
11	Brahma Borude	brahmaborude2005@gmail.com
12	Aditya Rao	adityarao0711@gmail.com
13	Akash	rajputakash1656@gmail.com
14	Pranav Prakash Powar	pranavpowar05@gmail.com
15	Kamal Yashwant Chaugule	Kamalchaugule09@gmail.com
16	Ashutosh Dubey	anupdubey0987@gmail.com
17	Varshita Tawade	tawadevarshu@gmail.com
18	Sakshi Pravin chavan	chavansakshi182@gmail.com
19	Shreyash Shete	shreyashshete900@gmail.com

20	Khan ammar waseem	ammar011205@gmail.com
21	Sanjula Parab	sanjulaparab@gmail.com
22	Lavishka Ronald D'souza	dsouzalavishka@gmail.com
23	Krish Sunil pandhare	krishpandhare2@gmail.com
24	Pooja Vicky Moullick	poojamoullick@gmail.com
25	Aishwarya Sudesh Dalvi	aishwaryasudesh20@gmail.com
26	Vaishnavi	vaishurg10@gmail.com
27	Sumit Ganesh Mohite	sumitmohite2024@gmail.com
28	Ayush Anil Mahadik	ayushmahadik12@gmail.com
29	Sahil Subhash Bamane	bamnereshma1@gmail.com
30	Parinita Taralkar	parinitataralkar@gmail.com
31	Mokshada wani	momiwani756@gmail.com
32	Anand Mishra	mr.moon15m@gmail.com
33	Roshan omprakash chauhan	chauhanroshan8097@gmail.com
34	Rushabh	rushabhnaik972@gmail.com
35	Soham pawar	pawarsoham527@gmail.com
36	Barot Rajesh Dinesh	rajeshbarot1278@gmail.com
37	Padwal Avishkar Santosh	padvalavishkar@gamil.com
38	Dipesh kodak	dipesh27kodak@gmail.com
39	Rushikesh kadam	rushikeshkadam0911@gmail.com
40	Deva Vijay Panigrahi	panigrahideva329@gmail.com
41	Bhavya katarmal	bhavyakatarmal1@gmail.com
42	Pranay kadam	pranaykadam2006@gmail.com
43	Akshat Patil	patilakshat13@gmail.com
44	Harshal Pravin Kharat	kharatharshal746@gmail.com
45	Saurav Kadam	sauravkadam0710@gmail.com

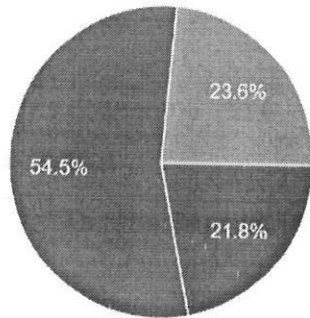| Module	Contents	Number of hours
I	**Module: Statistics** Counting, Random variables, distributions, quantiles, mean variance and sums	6 Lectures
	Case Study / Assignment	1 Lecture
2	**Module: Basics of Algorithm** Introduction to algorithms - What is an algorithm, analysis of the algorithm, Types of complexity, Running time analysis, How to Compare Algorithms, Rate of Growth, Performance characteristics of algorithms, Estimating running time/number of steps of executions on paper,	6 Lectures
	Case Study / Assignment	1 Lecture
3	**Module: Basic Programming Concepts for Python and OOPS** Python : History & Versions, Features of Python, Execution of a Python Program, Python Tokens, Use of input() and print() Function. Data types, Compound Data types ,Flow Control Statements. If,if-else, Nested If, While, For, Range() Function use. OOPS : What is OOPS, Features of OOPS , Advantages and Dis advantages of OOPS, C++ Features , Difference Between CC and Python. Basic C++ Program and Execution.	6 Lectures

		Case Study / Assignment	1 Lecture
4		**Module: Database Management System** Introduction of Database, Characteristics of DBMS, Need of Database, Types of Database, advantages of Database Management system, User of Database, Structured Query Language	6 Lectures
		Case Study / Assignment and Test	1 Lecture

JNAN VIKAS MANDAL'S
AmratlalRaichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
MohanlalRaichand Mehta College of Commerce
Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, AiroliNavi Mumbai

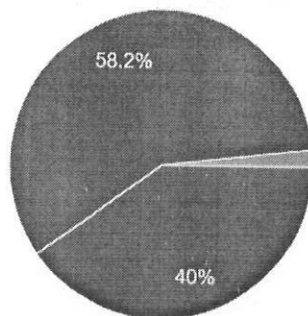The lectures were clear & easy to understand.
55 responses

- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly disagree

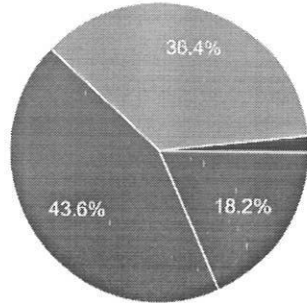How useful to you was this course?
55 responses

- Very Useful
- Moderately useful
- Not at all useful
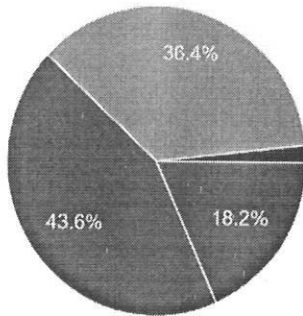
How much did you learn from this course?
55 responses

- A great deal
- A lot
- A moderate amount
- A little
- Nothing

36.4%

43.6%   18.2%

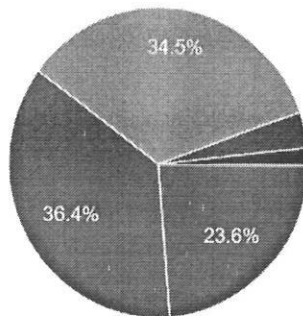## How much did you learn from this course?
55 responses

- A great deal
- A lot
- A moderate amount
- A little
- Nothing

36.4%

43.6%   18.2%

Overall, how would you describe the quality of the instruction in this course?
55 responses

- Excellent
- Very good
- Good
- Fair
- Poor

34.5%

36.4%   23.6%

FYCS Bridge Course Sem II 2023-24

05/12/2023

* Indicates required question

1. Email *

   _____

2. Name of the student *

   _____

3. Roll Number *

   _____

4. A card is drawn from the set of 52 cards. Find the probability of getting a queen *
   card.

   Mark only one oval.

   ⬭ 1/52

   ⬭ 1

   ⬭ 1/26

   ⬭ 1/13

5.   An event in the probability that will never be happened is called as   *
      _____ event

Mark only one oval.

⬭ Sure

⬭ Unsure

⬭ Possible

⬭ Impossible

6.   What will be the probability of getting odd numbers if a dice is thrown? *

Mark only one oval.

⬭ 2

⬭ 1/2

⬭ 4/3

⬭ 3/1

7.   he probability of getting two tails when two coins are tossed is - *

Mark only one oval.

⬭ 1/6

⬭ 1/4

⬭ 1/2

⬭ 1/3

8. In a box, there are 8 orange, 7 white, and 6 blue balls. If a ball is picked up   *
    randomly, what is the probability that it is neither orange nor blue?

    Mark only one oval.

    ◯ 1/21

    ◯ 2/21

    ◯ 1/3

    ◯ 5/21

9. In computer science, algorithm refers to a special method usable by a computer *
    for the solution to a problem.

    Mark only one oval.

    ◯ True

    ◯ False

10. Algorithm can be represented as *

    Mark only one oval.

    ◯ Pseudocode

    ◯ Flowchart

    ◯ None of the above

    ◯ both 1 and 2

11. Algorithm should have finite number of steps *

    Mark only one oval.

    ◯ True

    ◯ False

12. which is not the important aspect of Loop *

Mark only one oval.

◯ Initial condition

◯ nested loop

◯ invariant relation

◯ termination

13. Running the program many times is sufficient to prove the correctness of   *
program

Mark only one oval.

◯ True

◯ False

14. Which is not the compound Data type in Python? *

Mark only one oval.

◯ List

◯ Complex Numbers

◯ Tuples

◯ Dictionary

15. Which keyword is use for function? *

Mark only one oval.

◯ define

◯ fun

◯ def

◯ function

16.   Which is not a Python Token? *

Mark only one oval.

◯ Keyword

◯ Literals

◯ Operators

◯ Symbols

17.   Which among the following doesn't come under OOP concept? *

Mark only one oval.

◯ Data hiding

◯ Message passing

◯ Platform independent

◯ Data binding

18.   Which feature of OOPS described the reusability of code? *

Mark only one oval.

◯ Abstraction

◯ Encapsulation

◯ Polymorphism

◯ Inheritance

19.   What is the full form of DBMS ? *

Mark only one oval.

◯ Data of Binary Management System

◯ Database Management System

◯ Database Management Service

◯ Data Backup Management System

20. How many types of data independence are there? *

Mark only one oval.

- ◯ 1
- ◯ 2
- ◯ 3
- ◯ 4

21. Duplication of data at several places is called as _____. *

Mark only one oval.

- ◯ Data Repository
- ◯ Data Inconsistency
- ◯ Data Mining
- ◯ Data Redundancy

22. _____ is a collection of related data. *

Mark only one oval.

- ◯ Information
- ◯ Valuable information
- ◯ Database
- ◯ Metadata

23. Which one of the following refers to the "data about data"? *

Mark only one oval.

- ◯ Directory
- ◯ Sub Data
- ◯ Warehouse
- ◯ Meta Data

Feedback

24. Were the objectives of the course clear to you? *

Mark only one oval.

◯ Very Clear

◯ Moderately Clear

◯ Not at all Clear

25. The lectures were clear & easy to understand. *

Mark only one oval.

◯ Strongly Agree

◯ Agree

◯ Neutral

◯ Disagree

◯ Strongly Disagree

26. The course was organized in a manner that helped you understand the   *
underlying concepts.

Mark only one oval.

◯ Strongly Agree

◯ Agree

◯ Neutral

◯ Disagree

◯ Strongly Disagree

27. How useful to you was this course? *

Mark only one oval.

◯ Very Useful

◯ Moderately useful

◯ Not at all useful

28. How much did you learn from this course? *

Mark only one oval.

○ A great deal

○ A lot

○ A moderate amount

○ A little

○ Nothing

29. Overall, how would you describe the quality of the instruction in this course? *

Mark only one oval.

○ Excellent

○ Very good

○ Good

○ Fair

○ Poor

Google Forms

JNAN VIKAS MANDAL'S
AmratlalRaichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
MohanlalRaichand Mehta College of Commerce
Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, Airoli, Navi Mumbai

Bridge Course for First Year Computer Science students, which took place from November 28 to December 4, 2023, prior to the commencement of regular lectures. Duration of the course is 30 hours.

Subjects Covered:

1. Basic Concepts for Python and OOPS - Mrs. Janhavi Kshirsagar

2. Basics of Algorithm - Dr. (Mrs.) Sanjivani Nalkar

3. Database Management System - Mrs. Sarita Sarang

4. Calculus and Statistics - Ms. Shakuntala Kulkarni

The Bridge Course aimed to bridge the gap between subjects studied at the previous academic level and those to be covered in the upcoming year of graduation. The course content was thoughtfully designed to provide a comprehensive understanding of each subject and its practical applications in the industry. Furthermore, the course aimed to establish a robust foundation for the students, facilitating a smoother transition into their regular graduation courses.

A test of 20 marks was conducted for all students through Google Form, allowing teachers to evaluate the understanding and retention of the course material.

We appreciate the dedication and effort put forth by our faculty members in ensuring the success of this Bridge Course. This initiative plays a crucial role in equipping our students with the necessary knowledge and skills for their academic journey.

Asst. Prof. Janhavi Kshirsagar
Coordinator, CS-IT Department